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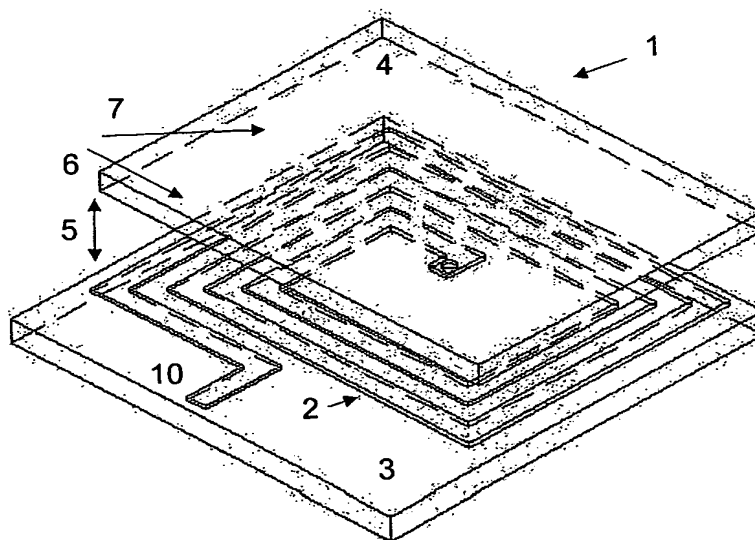
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(54) Title: LOAD CELL INCLUDING DISPLACEMENT TRANSDUCER, AND ASSOCIATED METHODS OF USE AND MANUFACTURE



(57) Abstract: A load cell reacts to an applied force by displacing a physical component of the load cell. An electrical component of the load cell produces an electromagnetic (EM) field in response to an applied radio frequency signal. The physical component is located in proximity to the EM field, and perturbs the EM field without physically contacting said electrical component structure. A displacement of the physical component results in a change to the perturbation of the EM field. A monitoring circuit of the load monitors an output signal that is affected by change to the perturbation of the EM field, and thereby detects the applied load.

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